							Trac	king Table for Ecosy	DELTA PROGRAM ystem Restoration F 28, 1999	rojects		
ALFED No.	Project Description	Project Category	Applicant	Geo Area	CALFED Approved Funding	CALFED Funds Obligated	CALFED Funds Expended	CVPIA Funding	Other Funding	Acres	Monitoring	Status
97-C01	RD 108 screen construction	Fish Screen	RD 108	Sacramento Mainstern	\$2,500,000	\$2,500,000	Contract A \$2,209,937	gency: CALFED Bay \$3,800,000		op 204 Fu		Fully executed 7/16/98 - Construction complete. Completed Amendment to extend contract 6 mos. Through 12/31/99. High water levels have delayed completion of construction until Fall 1999.
97-C02	Princeton Fish screen construction B73	Fish Screen	RD1004	Sacramento Mainstem	\$1,750,000	\$1,750,000	\$1,469,027	\$544,000	\$2,675,000		Reduce entrainment of outmigrating and resident fish. Measure screen approach, sweep, and bypass flow velocities.	Fully executed 9/22/98, Construction 95% complete. Finished start-up testing.
97-C03	Walershed management planning for Sacramento River Riparian Program		DWR	Sacramento Mainstem	\$200,000	\$200,000	\$0	\$0	\$0		Facilitate broadbased local stakeholder group in development of watershed plan. Participation and extent of implementation activities. Protect and enhance riparian habitat. Measure riparian density and species composition, pre and post project.	Fully executed 8/4/98. DWR completed subcontract with Chico State for the program.
97-C04A	Selected fish screens	Fish Screen	DFG	Sacramento Tributaries	\$446,250	\$374,850	\$28,955	\$0	\$0		Reduce entrainment of outmigrating and resident fish, Measure screen approach, sweep, and bypass flow velocities.	Fully executed contract for small screens for 374,850 on 2/2/99.
97-C04B	Selected fish screens	Fish Screen	DWR	Suisun Marsh	\$2,784,600	\$0	\$0	\$0	\$151,000		Reduce entrainment of outnigraling fish. Measure screen approach, sweep, and bypass flow velocities.	DFG cannot contract for fish screen construction over \$500,000. Sulsun marsh screens will be withdrawn until a new project proponent has been selected and project plans finalized. They will resubrnit as a potential directed program.
97-C05	Effects of wetlands restoration on methyl mercury levels	Water Quality and Temperature	UC Davis	Delta	\$546,171	\$546, <mark>171</mark>	\$68,602	\$0	\$0		Evaluate relationship of physical, chemical and biological gradients or methyl mercury production and bioaccumulation. Sample levels of mercury in bioindicator species from various sites in the Delta. Sample sediment cores from various sites and locations in the Delta will be used in mercury methylation experiments.	Fully executed 9/24/98. Completed purchase of mercury analyzer have verified analytical methods-field sampling & have started analyzing field samples ongoing to catalogue of wetlands to determine key gradients.
97-C06	Contaminant effects on smelt	Water Quality and Temperature	UC Davis	Delta	\$437,326	\$437,326	\$2,563	\$0	\$0		Evaluate the potential impact of contaminants on Delta smalt. Obtain samples and evaluate using histopathology, genetic and otolith analyses. Evaluate exposure of young smelt to chemical commonly found in Delta.	Fully executed 11/20/98.
97-C07	Preventing exotic introductions from ballast water		UC Sea Grant Extension Program	North Bay	\$222,830	\$222,830	\$13,236	\$0	\$63,885		Increase maritime industry members' awareness of ballast release issues and alternative practices to reduce new introduction into the Delta. Participation and effectiveness surveys.	Fully executed 8/24/98. Project delayed until 2/99 due to staffing problems. Work on newsletter & outreach has begun.
97-C08	San Joaquin River real-time water quality management program	Water Quality and Temperature	DWR	San Joaquin Mainslem	\$932,000	\$931,857	\$0	\$0	\$0		Increase water user awareness of real time data and its beneficial use. Survey participation, use of data base and changes in load adjustments. Reduce water quality excursion in the SJ Delta system as real time data is utilized. Measure water quality conditions and variances over time. Monitor New Melones water operations for net decrease in releases following a forecast.	Fully executed 3/30/99, Developing sub-contracts for the project,
	Developing a genetic baseline for San Joaquin salmon	Fish Management	DFG	San Joaquin Mainstem	\$387,003	\$387,003	\$0	\$0	\$600,000		Characterize the genetic makeup of SJ Fall run chinook salmon. Collect and analyze tissue samples from populations over 3 year	Contract fully executed by 2/1/99.
97-C11	Gravel at Basso Bridge	Habitat Restoration in Floodplains & Marshes	DFG _	Tuolumne River	\$250,975	\$250,975	\$4,095	\$0	\$22,100		Improve the quality and quantity of spawning habital, use, and durability. Redds survey, visual observation; carcass surveys - pre and post project. Monitor channel and geomorphic characteristics (pebble counts, bulk samples, profiles), pre and post project and over time. Insert storage of gravel will be transported downstream over time to support downstream habitals. Monitor channel and geomorphic characteristics (pebble counts, bulk samples, profiles) at downstream locations, pre and post project.	Fully executed 1/5/99. Permit application complete & should receive approval soon.
97-C12	Evaluation of alternative pesticide use reduction	Water Quality and Temperature	UC Davis	Landscape	\$957,781	\$957,781	\$18,405	\$0	\$746,827		Monitor water quality before and after outreach program to determine efficiency of program.	Fully executed 8/26/98, completed Task Order for year 1 work 11/18/98. Development of Alternative Practices Matrix 49% complete
98-C01	Twitchell Island Subsidence Study	Habitat Restoration in Floodplains & Marshes	DWR	Delta	\$3,583,000	\$3,583,000	\$0	. \$0	\$0		Evaluate techniques to reverse the subsidence of Delta island habitat Monitor biomass accretions and deposition of sediment over time, an costs.	Fully executed 5/20/99. Developing subcontracts for the project.
98-C02	Culture of Delta Smelt	Fish Management	UC Davis, Animal & Science	Delta	\$194,870	\$194,870	\$119,276	\$0	\$0		Develop culture methods to supply all life stage of delta smelt for research studies. Collect data on larvae size, weight, and food intake for different water types, tank size, and water constituents.	Fully executed 9/10/98. Physical improvements to site completed, testing, & delta water supply with larval fish. Broodfish collection & rolifer culture complete, Larval & juvenile rearing progressing.
98-C03	Hamilton wetlands restoration planning	Habitat Restoration	Calif. Coastal Conservancy and SF BCDC	Northbay	\$1,000,015	\$1,000,015	\$458,923	\$0	\$1,324,000		Restore subsided diked area to upland seasonal and tidal wetland habitats. Monitoring of site physical characteristics (elevation, contours, etc.) and hydraulics. Water quality monitoring (salinity, temperature, and DOJ. Monitor vegetation development (extent, location, composition, and density). Survey of use by fish and widilife	Fully Executed 10/28/98. Completed the EIR/EIS, Hamilton Conceptual Restoration Plan, and feasibility study.
98-C04	Merced River Ranch acquisition and restoration	Habitat Restoration	DFG	Merced River	\$658,000	\$658,000	\$0	\$0	\$45,500	42	Protect and enhance riparian, welland and aquatic habitats, and provide supply of gravel for spawning habitat projects.	Combined with 98-C05 Basso Bridge land acquisition.
g8-C05	Basso Bridge land acquisition		DFG	Tuolumne River	\$172,500	\$172,500	\$0	\$0	\$0	318	Protect spawning riffles, and protect and enhance riparian species.	Fully executed 1/5/99, Working with Wildlife Conservation Board to start work on property appraisals.
98-C06	Water Quality Criteria for Chlorpyrifos and Diazinon (Designated Action)	Water Quality and Temperature Improvement	DFG	Landscape	\$70,000	\$67,753	\$0	\$0	\$0	-	Develop water quality criteria for clorpyrilos and diazinon Conduct toxicity test on ceriodaphnia and psysa	Contract fully executed 3/8/99.
98-C07	Falhead Minnow Toxicity	Water Quality and Temperature Improvement	CVRWQCB	Landscape	\$400,000	\$400,000	\$0	\$0	\$0		Evaluate toxicity and water quality in the Delta. Collect samples quarterly from various river and stough sites in the Delta for subsequent lab testing for contaminants and toxicity (fathead minnow larval growth and survival, ceriodaphria reproduction)	Contract fully executed 2/5/99.

CALFED BAY-DELTA PROGRAM

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Acquisition of existing habitat, or restoration of public lands or existing degraded habitat - No land use change.</sup>

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CALFED No.	. Project Description	Project Category	Applicant	Geo Area	CALFED Approved Funding	CALFED Funds Obligated	CALFED Funds Expended	CVPIA Funding	Other Funding	Acres	Monitoring	. Status
	Algal Toxicity	Water Quality and Temperature Improvement		Landscape	\$500,000	\$500,000	\$0	\$0	\$0		Evaluate toxicity and water quality in the Delta. Collect samples quarterly from various river and slough sites in the Delta for subsequent lab testing for contaminants and toxicity.	Contract fully executed 2/5/99,
98-C09a	Sediment Water Quality	Water Quality and Temperature Improvement	DPC	Delta	\$24,000	\$24,000	\$0	\$ so	\$0	7	Determine toxicity criteria and sediment reuse potential to develop a Delta Dredging Reuse Strategy.	Contract fully executed 4/16/99.
98-C09b	Sediment Water Quality	Water Quality and Temperature Improvement	DFG	Delta	\$276,000	\$276,000	\$0	\$(\$0		Same as 98-C09a	Fully executed 3/30/99.
98-C09c	Sediment Water Quality	Water Quality and Temperature Improvement	RWQC	Delta	\$200,000	\$200,000	\$0	\$G	so so		Same as 98-C09a	Fully executed 6/3/99.
98-C10	CMARP DA		DWR	Landscape	\$800,000	\$600,000	\$0	\$0	\$0	 	Develop a Comprehensive Monitoring and Research Program for CALFED.	Fully executed 5/4/99.
98-C11	Chinook Salmon Movement in the Lower SJR and South Delta		DFG	San Joaquin River and Delta	\$285,000	\$285,000	. \$0	\$0	\$0		Evaluate fish migration and delays through lower San Joaquin River and south Delta as potentially impacted by South Delta Temporary Barriers, Head of Oid River Barrier and/or low DO levels. Track movement of ultrasonic tagged adults.	Fully executed 6/2/99.
98-C12	Genetic Comparison of Steelhead Stocks in Clear Creek	Improved Fish Management & Hatchery Operations	USFWS	Clear Creek	\$45,493	\$0	\$0	\$c	\$0		Evaluate alternative steelhead slocks for future restocking of Clear Creek. Collect tissue samples for genetic evaluation.	Contract sent to contracts for signature 5/4/99.
98-C13	Spawning Areas of Green Sturgeon in the Upper Sacramento River	Habitat Restoration in Floodplains & Marshes	USFWS	Sacramento River	\$60,801	\$0	\$0	\$0	. \$0		Characterization of Green Sturgeon habitat and life history patterns in the upper Sacramento River. Survey of spawning areas.	Contract sent to contractor for signature 3/19/99.
98-C14	Monitoring Spring and Winter- run Chirook Salmon and Steelhead in Battle Creek	improved Fish Management & Hatchery Operations	USFWS	Battle Creek	\$150,000	\$0	\$0	\$C	\$0		Evaluate life history characteristics for spring and winter run chinook and steelhead in Battle Creek. Fish counts, snorkel surveys, juvenite monitoring using screw traps. Genetic data for species.	Contract sent to contractor for signature 5/20/99,
98-C15	Biological Assessment of Green Sturgeon in the Sacramento- San Joaquin Watershed	Improved Fish Management & Halchery Operations	UC Davis	Sacramento- San Joaquin Watershed	\$241,000	\$241,000	\$0	\$0	\$0		Identify the biological characteristics of green sturgeon. Behavioral and tolerance limits to temperature ranges for various size fish. Biological examination of reproduction system and function. Genetic data for GS and white sturgeon. Examine Embryo samples to measure developmental process over time and varying river	Contract fully executed 3/30/99,
98-C16	Developing a Methodology to Accurately Simulate Entrainment of Fish	Fish Screen Improvements	DFG	Delta	\$200,000	\$0	\$0	\$0	\$0		Evaluate effectiveness of barge sampling in estimating existence of fish al/near diversion locations. Perform fish-friendly pump sampling and diversion net sampling at various times.	Contractor has completed review & was received at DFG contract office 5/26/99, In the budget office.
99-C01	Cosumnes River Feasibility Study	Habitat Restoration in Floodplains & Marshes	The Nature Conservancy	Cosumnes River	\$400,000	\$0	\$0	\$0	\$c		Feasibility Study of Ecosystem Restoration opportunities on the Cosumnes River.	Contract to contractor for signature 5/20/99.
99-C02	Mokelumne River Feasibility Study	Habitat Restoration in Floodplains & Marshes	EBMUD	Mokelumne River	\$400,000	\$400,000	\$0	\$0	\$0		Feasibility Study of Ecosystem Restoration opportunities on the Mokelumne River.	Contract fully executed 4/20/99
				Total: \$	\$21,075,615	\$17,360,931	\$4,393,021	\$4,344,000	\$5,628,312			
				32		82%	21%					81%
	L	L		Contracts		Obligated	Expended					Executed
97-N02	Sacramento River floodplain acquisition and riperian restoration	Habitat Restoration in Floodplains & Marshes	WCB, USFWS, The Nature Conservancy	Sacramento Mainstem	\$9,879,800	\$9,879,800	Contract Agenc \$6,066,214	y: National Fish and	Wildlife Foundation	1,500 ^t	4 funds) Increase extent of channel meander and flood zones. Mapping of aquatic and terrestrial habitats. Increase native riparian growth and reduce exotic distribution adjacent to the river. Measure tree density and species composition and height, pre and post project. Measure exotic weed cover, pre and post project. Measure floor litter quality and quantity to evaluate accumulation and Carbon/Nitrogen ratios, pre and post project. Onder and areas searches for songbird populations and habitat characteristics as indicator of ecological health. Groundwater piezometers samples for evaluating water quality adjacent to restoration area, pre and post project and adjacent sites.	Contract signed 2/4/99. First property purchase in escrow.
		Habitat Restoration in Floodplains & Marshes	USFWS, The Nature Conservancy	Sacramento Mainstern	\$780,000	\$780,000	\$1,435	\$0	\$0	300²	Same as 97-NO2	Contract signed 12/8/98.
97-N03B	Sacramento River floodplain acquisition and riparian restoration	Habitat Restoration in Floodplains & Marshes	WCB	Sacramento Mainstern	\$512,500	\$512,500	\$0	\$0	· s o	See 97N03A	Same as 97-N02	Scope of work received 3/16/99. Under review, Draft contract complete.
97-N04	Sacramento River meander restoration	Habitat Restoration in Floodplains & Marshes	The Nature Conservancy	Sacramento Mainstern	\$898,700	\$898,700	\$816,800	\$0	\$0	95	Same as 97-N02	Contract signed 10/28/98, Property purchased. Completing subcontracts for site preparation and planting.
97-N05	Restoration planning (M and N Fork American River, Auburn Ravine, Coon Creek)	Habitat Restoration in Floodplains & Marshes	Placer County	American River	\$222,530	\$222,530	\$0	\$c	\$222,530		Evaluate restoration needs toward the protection and improvement in water quality, aquatic habitat and its accessibility, and riparian communities.	Contract executed 3/29/99.

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CALFED No.	Project Description	Project Category	Applicant	Geo Area	CALFED Approved Funding	CALFED Funds Obligated	CALFED Funds Expended	CVPIA Funding	Other Funding	Acres	Monitoring	Status
97-NO6	Butte Creek acquisition and riparian restoration	Habitat Restoration in Floodplains & Marshes	CSU, Chico	Butte Creek	\$187,128	\$187,128	\$0	\$0	\$135,000	90 ²	Protect riparian habitat. Monitor revegetation. Simitar to 97-N02.	Contract signed 12/21/98.
97-N07	Cottonwood Creek channel restoration planning (Habital Restoration in Floodplains & Marshes	Graham Matthews & Associates	Collonwood Creek	\$61,000	\$61,000	\$20,081	\$0	\$10,000		Describe geomorphic conditions and changes in region toward development of channel and riparian restoration plan. Survey of geomorphic and riparian characteristics, current and historical, and eventually post project.	Contractor signed 7/1/98. Work is ongoing.
97-N08	Lower Mill Creek riparian restoration	Habitat Restoration in Floodplains & Marshes	Mill Creek Conservancy, The Nature Conservancy	Mill Creek	\$69,000	\$69,000	\$1,899	\$30,000	\$109,670	3	Increase native riparian growth adjacent to the river. Measure tree density and species composition and height, pre and post project.	Contract signed 12/29/98.
97-N09	Monitoring of Delta contaminants	Water Quality and Temperature	San Francisco Baykeeper	Delta	\$100,000	\$100,000	\$35,858	\$0	\$20,000		Evaluate toxicity and water quality in the Delta. Collect samples quarterly from various river and slough sites in the Delta for subsequent lab testing for contaminants and toxicity (fathead minnow larval growth and survival, ceriodaphia reproduction)	Contract signed 9/18/98,
97-N10	Jepson Prairie restoration and conservation plan	Habitat Restoration in Floodplains & Marshes	Solano County Farmlands, Open Space Foundation	Delta	\$244,801	\$244,801	. \$0	\$0	\$0	600²	Restore habitat. Monitor vegetation/free survivorship, abundance, size and distribution, pre and post project and comparison to control.	Contract signed 1/29/99.
97-N11	In-Channel Island restoration/demonstration	Habitat Restoration in Floodplains & Marshes	Association of Bay Area Governments	Delta	\$270,270	\$270,270	\$197,145	\$0	\$91,000		Demonstrate effective biotechnical methods to reduce erosion of in- channel islands and adjacent delta island banks. Visual observation of wave and current energy, pre and post project for different application practices for different hydrodynamic conditions. Field mapping and sediment deposition/accretion pre and post project and compare with control. Survey of fish and wildlife use and breeding, including invasive non-native species. Demonstrate that installations can be installed while minimizing impact to existing ecological values. Pre and post project surveys of fisher and terrestrial biota. Survey for vegetation colonization and succession.	Contract signed 7/15/98.
97-N12	Franks Tract restoration	Habitat Restoration in Floodplains & Marshes	Moffat and Nichol Engineers, DPR, DWR -	Della	\$231,500	\$231,500	\$35,912		\$370,000	40	Restoration of deepty flooded habitat to tidal perennial aquatic, shaded riverine aquatic, and mid channel island shoal and shoal habitats. TBD - Physical/geomorphological characteristics of Islands.	Contract signed 12/29/98.
97-N13	Tyler Istand levee protection and habitat restoration pilot project	Habitat Restoration in Floodplains & Marshes	Habitat Assessment & Restoration Team, Inc	Della	\$885,202	\$885,202	\$188,376	\$0	\$0	6	Evaluate alternative vegetative and biotechnical techniques for restoring and stabilizing levee and bank erosion and riparian and shaflow water habilat. Measure boat wake energy dissipation for different installation practices, compare with control. Measure sediment deposition occurring with different installation practices, compare with control and different locations. Survey macroinvertebrate and fishery population for the different installation practices, compare with control and different locations. Survey survival and growth of vegetation between different installation practices, compare with control and different locations.	Contract signed 7/22/98.
97-N14	Cosumnes start-up stewardship and restoration	Habitat Restoration in Floodplains & Marshes	WCB, The Nature Conservancy	Cosumnes River	\$1,975,100	\$1,975,100	\$0	\$0	sc		Conduct baseline monitoring of riparian vegetation, wildlife, avian and fish resources	Contract signed 6/22/99
97-N16	Bay Point shoreline Restoration Plan	Habitat Restoration in Floodplains & Marshes	East Bay Regional Park District	East Bay	\$185,000	\$185,000	\$0	\$0	\$53,900	52²	Restore lidal salt marsh habitat and function. Monitor tidal flow and range over time. Monitor water quality and sedimentation processes over time. Monitor changes in plant species diversity, density and cover. Survey use by fish and wildlife over time.	Contract signed 8/12/98.
97-N18	Cullinan Ranch restoration)	Habitat Restoration in Floodplains & Marshes	Ducks Unlimited, Inc.	North Bay	\$368,500	\$368,500	\$0	\$C	\$662,000	1,495 ²	See 97-N16	Contract executed 3/30/99.
97-N19	Tolay Creek restoration	Habitat Restoration in Floodplains & Marshes	Ducks Unlimited, Inc.	North Bay	\$283,000	\$283,000	\$232,090	\$0	\$422,000	312 ²	See 97-N16	Contract and first task order approved by CALFED and signed 10/16/98. Channel modifications complete and levee breached Dec. 1998.
97-N20	Implementing programs to reduce the use of pesticides and fertilizers in Sacramento and San Joaquin watersheds	Water Quality and Temperature	Community Alliance with Family Farmers	Landscape	\$1,680,631	\$1,680,631	\$475,375	\$0	\$c		Increase awareness of users to detrimental impacts and miligation approaches. User survey on past and post-project application. Evaluate different application techniques and their impact on runoff water quality, develop protocots and models. Water quality and flow measurements in surface water adjacent to sites. Increase farmer awareness of impacts of pesticide use and alternatives to reduce water quality problems in the Central Valley, and San Joaquin basin.	Contract signed 7/20/98.
97-N21	Knights Ferry gravel replenishment	Habitat Restoration in Floodplains & Marshes	Consultants	Stanislaus River	\$ 536,410	\$536,410	\$98,878	\$0	\$90,000		Improve spawning habitat quality and quantity, and evaluate conditions for successful and durable restoration. Map redd locations and changes over time and under different gravel supply conditions, at various sites. Measure transect and vertical hydraulic gradient during spawning period and after incubation hat various sites. Improve incubation hathat and conditions by adding gravel with no fines. Integravel water temperatures, flows, DO levels, substrate size, fine sediment intrusion at various sites.	

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 Acquisition of existing habitat, or restoration of public lands or existing degraded habitat - No land use change.

Status	Contract executed 3/31/99.	Conkract signed 3/12/99,	Contract signed 6/9/99.	Evabuse the effect of screening small screen diversion. Pive net and Contract sent to contractor for signature on 3/28/98. Project delayed due to damage flow camping in screened and unscreened diversions at various for fish screen. Indicatile and operating conditions.	Contract sent to contractor 7723/99.													88%	Executed	Completed
Monitoring	Reduce entrainment of outmigrating fish. Measure screen approach, sweep, and bypass flow velocities.	Research project to inventory and develop a mechanism to purchase dams and diversions from willing sellers to improve fish passage	Characterization of steelhead habitat and life history patterns in the Yuba River. Trap fish through year, and then measure and collect scale and tissue samples for evaluation. Genetic data for steelhead.	Evaluate the effect of screening small screen diversion. Fyke net and live box sampling at screened and unscreened diversions at various hydraulic and operating conditions.	Reduce entrainment of outmigrating fish. Measure screen approach, seep, and bypess flow velocities. Evaluate the impact of shallow water restoration actions on water quality. Collect and conduct physicalichemical analysis of water and osi samples.														(Stakeholder funds)	SO SEGO.COC SO A Separate Balle Creek Project recently approved has monitoring. See 98-B16.
Acres		<u></u>																	er District	
Other Funding	0\$	9	O\$	OS.	0\$										ı			\$2,379,100	/ Metropolitan Wat	So
CVPIA Funding	S\$	98	\$0	OS .	8	0\$	os.	03	0\$	0\$	0\$	0	0\$	OŞ.	0\$	09	0\$	\$30,000	an Water Agencies	\$500,000
CALFED Funds Expended	os -	0\$	S S	os	8	S S	0\$	G G	OS.	0\$	\$0	0	O\$	O\$	o\$	<u> </u>	9	\$8,201,085 25%	Expended Agency: California Uri	os os
	\$100,000	\$49,000	\$120,000	OS .	OS.	₽	9	8	g.	9	os	0	os	S.	09	<u> </u>	09	\$20,303,572 62%	Obligated Contract A	<u>s</u>
CALFED Approved C	\$100,000	\$49,000	\$120,000	\$95,000	\$5,100,000	\$847,690	\$1,133,000	\$29,887	\$153,036	\$1,592,396	\$693,895	\$1,634,501	\$672,986	\$116,423	\$131,297	\$72.755	\$78,230	\$32,654,818		0\$
	Sacramento River		Yuba River	Sacramento River	Sacramento River	Landscape	Landscape	Sacramento Mainstem	Suisun Marsh	Consumnes- Mokelumne · Basin	Nurse Slough	Landscape	Landscape	Bay Area	Landscape	Landscape	Landscape	Total: \$	Contracts	Sacramento Tributaries
cant	RD 2035	Institute for Fisheries Resources	Yuba Co, Water Agency	Pelgar Mulual Water Company	Anderson- Cottonwood Irrigation District	UC Davis	Habitat Assessment & Restoration Team, Inc	Conservancy	UC Davis	JC Davis		UC Berkeley		serkeley	DFA	DFG	DFG			USFWS
<u>5</u>	l	l	ł	Fish Screen Improvements	ł	Fish Screen Improvements	Habitat Restoration I in Floodplains & Marshes	Habitat Restoration (in Floodplains & (Marshes	Habitat Restoration I in Floodplains & Marshes	Habitat Restoration I in Floodplains & Marshes		and				Improved Fish Management & Hatchery Operations	nproved Fish lanagement & alchery perations			Fish Screen Improvements
tion	RD 2035 Fish Screen	Expanding California Salmon Habitat to Alter Dams and Diversions	1 7	Evaluation		ឌ			Reintroduction of Endangered P Soft Bird's Beak to Restored Mabitat	Linked Hydrogeomorphic Ecosystem Models to Support Adaptive Management		Assessment of Pesticide (Assessment of Pesticide Resources in the Sacramento/San Joaquin Delta	cies of he		Nion, ns for quin	Genetic Evaluation H	Development of a Comprehensive Implementation M Plan for a Statistically Designed H Marking & Recovery Plan			Interim Flow Restoration
ė	98-N01 R			S-N04		99-N02 8x 8x			-	99-N06				99-N10 E	99-N11	99-N12 G	0 0 0 V			95-M01

¹ Acquisition of land where all or part are maintained in existing agricultural use - farmed or grazed.

2 Acquisition of exterior bashing on restoration of public lands or exterior developed bashing. Any land use that

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CALFED No.	Project Description	Project Category	Applicant	Geo Area	CALFED Approved Funding	CALFED Funds Obligated	CALFED Funds Expended	CVPIA Funding	Other Funding	Acres	Monitoring	Status
95-M02	Fish Screen and Ladder Construction	Fish Screen Improvements	Durham Mulual	Butte Creek	\$316,500	\$316,500	\$316,500	\$464,720	\$127,031		For Butte Creek system, 100,000 juvenile spring-run have been marked. Also evaluation of fish behavior at ladder entrance was completed.	Completed.
95-M03	Construct Fish Ladder on Parrott-Phelan Dam	Fish Passage Improvements	M&T Ranch/Parrott	Butte Creek	\$0	\$0	\$0	\$100,000	\$318,000		For Butte Creek system, 100,000 juvenile spring-run have been marked.	Completed.
95-M04	Gravel Restoration Project	Habitat Restoration in Floodplains & Marshes	DWR	Sacramento River	\$0	so	\$0	\$39,400	\$13,100	- •	Small gravel project. Restore and improve floodplain functions. Restore riparian and welland vegetation. Monitor vegetation, fish and wildlife populations.	Completed,
	Pump Station Relocation Construction	Fish Passage Improvements	M&T Ranch/Parrott Investments Co.	Sacramento Tributaries	\$1,610,000	\$1,610,000	\$1,610,000	\$2,254,000	\$830,000		A separate AFRP monitoring plan. NMFS monitored velocity on screen face. Improve and restore spawning habitat and durability. Conduct redd counts and other use surveys.	Completed.
	Implementing programs to reduce the use of pesticides and fertilizers in Sacramento and San Joaquin watersheds	Water Quality & Temperature Improvements	Community Alliance with Family Farmers	Landscape	\$660,000	\$660,000	\$659,770	\$0	· \$0		Monitoring of progress of willingness of farmers to reduce pesticide use is being documented	Year 2 of 3 year project.
95-M07	Fish Screen Construction	Fish Screen Improvements	Sulsun Resource Conservation District	Suisun Marsh	\$450,000		\$450,000	\$450,000	\$0		Suisun Resource Conservation District has long-term monitoring program. Reduce entrainment. Measure screen approach, sweep and bypass flow velocities.	Completed.
95-M08	Winter-run Chinook Salmon Captive Broodslock Program	Fish Screen Improvements	DWR	Landscape	\$300,000	\$300,000	\$284,000	\$0	\$250,000		Research protocols are peer-reviewed.	Completed.
96-M01	Construct Siphon & Associated Improvements.	Fish Passage Improvements	Western Canal Water District	Sacramento Tributaries	\$3,095,873	\$3,095,873	\$2,986,067	\$3,095,873	\$3,265,873		Monitoring plan has been designed and is underway. Reduce entrainment. Measure screen approach, sweep and bypass flow velocities.	Completed.
96-M02	Prospect Island - Shallow Water Habitat/Wetlands Restoration Plan	Habitat Restoration in Floodplains & Marshes	DWR	Delta	\$2,500,000	\$2,500,000	\$0	\$0	\$6,650,000		Design, implement and monitor restoration of shallow water habitat/wetlands on Prospect Island.	Expect contract execution in near future.
	Riparian Habitat Restoration Verona-Collinsville (Phase 1- Feas.)	Habitat Restoration in Floodplains & Marshes	USCOE	Sacramento River	\$500,000	\$500,000	\$237,725	\$0	\$500,000		Demonstration project will monitor riparian habitat	Completed.
96-M04	Princeton Pumping Plant Fish Screen (Phase 1-Feas.)	Fish Screen Improvements	RD 1004	Sacramento River	\$75,000	\$75,000	\$75,000	\$150,000	\$100,000		Reduce entrainment measure screen approach, sweep and bypass flow velocities,	Completed.
96-M05	Fish Screen - Feasibility Engineering	Fish Screen Improvements	Princeton- Codora-Glenn / Provident Irrigation Districts	Sacramento River	\$75,000	\$75,000	\$75,000	\$75,000	\$0		Monitoring does not apply to a feasibility study.	Completed,
	Cosumnes River Preserve (Valensin Ranch Acquisition)	Habitat Restoration in Floodplains & Marshes	The Nature Conservancy	Cosumnes River	\$1,500,000	\$1,500,000	\$1,500,000	\$1,250,000	\$9,250,000	3,3001	Restore and improve floodplain functions. Restore riparian and wetland vegetation. Monitor vegetation, fish and wildlife populations.	Completed.
96-M07	Fish Screen Construction	Fish Screen Improvements	Princeton- Codora-Glenn / Provident Imigation Districts	Sacramento River	\$5,500,000	\$5,500,000	\$3,503,773	\$5,281,200	\$0		Screen will have velocity monitoring. Owner will conduct fyke netting for fish counts.	Completion expected in December 2000.
	Fish Screen Construction (Phase 2 - Install Additional Screens)	Fish Screen Improvements	Suisun Resource Conservation District	Suisun Marsh	\$500,000	\$500,000	\$0	\$500,000	\$0		Suisun Resource Conservation District has long-term monitoring program. Reduce entrainment. Measure screen approach, sweep and bypass flow velocities.	Steering Committee recommended rescinding funds.
96-M09	Sherman Island - Levee Habital Demonstration Project	Habitat Restoration in Floodplains & Marshes	DWR	Delta	\$480,000	\$480,000	\$76,266	\$0	\$480,000		Riparian habitat will be monitored for growth and endurance.	Bids exceed budget. Steering Committee denied request for additional funding. Proponent evaluating next step.
	Research to Predict Evolution of Restored Diked Wetlands	Habitat Restoration in Floodplains & Marshes	University of Washington	Delta	\$575,172	\$575,172	\$241,086	\$c	\$ t		Project develops conceptual model based on field investigations.	Steering Committee approved additional \$100,172 for additional fisheries and bird field work.
96-M11	Applied Research to Identify Chinook Salmon Runs via Genetics	Fish Management and Hatchery Operations	DWR	Landscape	\$450,000	\$450,000	\$0	\$ 0	\$600,000		Research protocols are peer-reviewed.	Project is underway.
96-M12	Battle Creek - Chinook Salmon & Steelhead Restoration Study		Bill Keir Associales	Battle Creek	\$306,000	\$306,000	\$306,000		sc sc		Monitoring is part of a recently approved Battle Creek project. See 9 B16.	B Completed,
96-M13	Yolo Bypass - Habital Restoration Study	Habital Restoration in Floodplains & Marshes	DWR	Yolo Bypass	\$226,000	\$226,000	\$226,000	\$0	\$30,000		Restore and improve floodplain functions. Restore riparian and welland vegetation. Monitor vegetation, fish and wildlife populations.	Project assigned to NFWF. Project completed.

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CALFED No.	. Project Description	Project Category	Applicant	Geo Area	CALFED Approved Funding	CALFED Funds Obligated	CALFED Funds Expended	CVPIA Funding	Other Funding	Acres	Monitoring .	Status
96-M14	Clear Creek - Property Acquisition	Habitat Restoration in Floodplains & Marshes	Western Shasta RCD	Clear Creek	\$211,000	\$211,000	\$211,000	\$211,000	\$0	120	Restore and improve floodplain functions. Restore riparian and wetland vegetation. Monitor vegetation, fish and wildlife populations.	Project assigned to NFWF. Project completed.
96-M15	Intro, of Non-indigenous Aquatic Species Research Program	Introduced & Undesirable Species	San Francisco Estuary Institute	Landscape	\$197,000	\$197,000	\$184,650	\$0	\$0		Reports are peer-reviewed.	90% complete.
96-M16	Sacramento River and Major Trib Corridor Mapping Project	Habitat Restoration in Floodplains & Marshes	CSU, Chico	Sacramento River	\$145,200	\$145,200	\$ 61,342	\$0	\$0		Products meet mapping standards.	80% complete.
96-M17	Yuba River Fish Screen Replacement	Fish Screen Improvements	Browns Valley Irrigation District	Yuba River	\$114,750	\$114,750	\$80,857	\$114,750	\$116,500		Reduce entrainment. Measure screen approach, sweep and bypass flow velocities.	95% complete.
96-M18	Determine Effects of Toxics	Water Quality & Temperature Improvements	Phyllis Fox & Associates	Landscape	\$110,000	\$110,000	\$15,000 ·	\$0	\$0		Project terminated.	Agreement could not be reached on project scope.
96-M19	Wilkins Slough - Fish Screen Prelim. Design	Fish Screen	RD 108	Sacramento River	\$100,000	\$100,000	\$100,000	\$100,000	\$16,300		Monitoring does not apply to a feasibility study.	Completed.
96-M20	Fish Screen Project	Fish Screen Improvements	Banta-Carbona Irrigation District	San Joaquin	\$100,000	\$100,000	\$0	\$1,916,750	\$0		Reduce entrainment of outmigrating and resident fish. Measure screen approach, sweep and bypass flow velocities.	Funding rescinded by mutual consent due to liming.
96-M21	Adams Dam Fish Screen & Ladder	Fish Screen Improvements	El Escalon Ranch	Butte Creek	\$70,304	\$70,304	\$70,301	\$0	\$50,000		Draft monitoring plan for physical and biological monitoring has been completed by owner. Reduce entrainment. Measure screen approach, sweep and bypass flow velocities.	Completed.
96-M22	Gorrill Dam Fish Screen & Ladder	Fish Screen Improvements	Gorrill Ranch	Butle Creek	\$67,990	\$67,990	\$61,191	·\$0	\$56,500		Draft monitoring plan for physical and biological monitoring has been completed by owner. Reduce entrainment. Measure screen approach, sweep and bypass flow velocities.	Completed.
96-M23	Innovative Fish Screen for Small Diversions	Fish Screen Improvements	Jim Buell & Associates	Landscape	\$90,000	\$90,000	\$51,773	. \$0	\$0		Research protocols are peer-reviewed.	Project will be complete at 60% of work due to ESA concerns.
96-M24	Butte Creek - Watershed Management Strategy Plan	Watershed Management	CSU, Chico	Bulle Creek	\$83,000	\$83,000	\$57,722	\$0	\$83,000		Existing conditions report and recommendation for future action including monitoring.	90% complete.
96-M25	Battle Creek - Chinook Salmon & Establish Watershed	Watershed Management	Western Shasta RCD	Baltle Creek	\$50,000	\$50,000	\$40,104	\$50,000	\$0		Monitoring is part of a recently approved Battle Creek project. See 98 B16.	50% complete.
96-M26	Prospect Island - Develop Monitoring Plan	Habitat Restoration in Floodplains & Marshes		Della	\$35,000	\$35,000	\$35,000	\$0	\$0		Monitoring plan is complete.	Completed.
96-M27	North Delta Area - Juvenile Salmon Rearing	Habitat Restoration in Floodplains & Marshes	CSU, Sacramento	Delta	\$24,500	\$24,500	\$19,048	\$0	\$0		Inventory of rearing habital for fisheries, including fisheries surveys,	Field work complete.
97-M01	Wilson Ranch screen	Fish Screen	Deseret Farms of Calif.	Sacramento Mainstem	\$200,000	\$0	\$0	\$0	\$0		Reduce entrainment of outmigrating fish. Measure screen approach, sweep, and bypass flow velocities.	Draft contract sent to Deseret Farms of California.
97-M02	Battle Creek screens and fish passage	Fish Passage	DWR	Battle Creek	\$395,000	\$395,000	\$0	\$0	\$0		See 98-B16	DWR has completed first phase of work; remaining work in progress.
97-M03	Gorrill Dam screen and ladder	Fish Screen	Gorrill Land Company	Butte Creek	\$369,641	\$369,641	\$332,677	\$755,948	\$268,318		Reduce entrainment of outmigrating fish. Measure screen approach, sweep, and bypass flow velocities. Increase upstream passage of returning adults.	Project is complete.
97-M04	Adams Dam screen and passage	Fish Screen	Ducks Unlimited, Inc.	Bulle Creek	\$217,000	\$217,000	\$216,892	\$508,192	\$171,000		Increase upstream passage of returning adults. Monitoring of fish behavior at the entrance of and movement through the ladder. Reduce entrainment of outmigrating fish. Measure screen approach, sweep, and bypass flow velocities.	Project is complete.
97-M05	Saeltzer Dam Fish Passage	Fish Passage	Townsend Flat Water Ditch Company	Clear Creek	\$138,200	\$0	\$0	\$0	\$0		Increase upstream passage of returning adults. Monitoring of fish behavior at the enfrance of and movement through the ladder. Reduce entrainment of outmigrating fish. Measure screen approach, sweep, and bypass flow velocilies.	USBR undertaking environmental and permitting tasks; so CUWA's funding for this project was reduced by about \$100,000. Project on hold until negotiations between Townsend Flat Water Ditch Co. and USBR regarding water rights are concluded.
97-M06	Hastings Tract screen feasibility study	Fish Screen	Hastings Island Land Company	Delta	\$27,000	\$0	\$0	\$0	\$0		Reduce entrainment of outmigrating fish. Measure screen approach, sweep, and bypass flow velocities. Increase upstream passage of returning adults.	Draft contract being prepared.
97-M07	Banta-Carbona fish screen	Fish Screen	Banta-Carbona Irrigation District	San Joaquin Mainstem	\$938,875	\$0	\$0	\$0	\$0		Reduce entrainment of outmigrating fish. Measure screen approach, sweep, and bypass flow velocities. Increase upstream passage of returning adults.	Received proponents indication of desire to proceed. Contract under preparation.
97-M08	Tuolumne River channel restoration (Pool 9)	Fish Passage	Turlock Irrigation District	Tuolumne River	\$2,353,100	\$0	\$0	\$0	\$0		increase survival of outmigrating smolts. Monitor temperature and water quality, pre and post project. Conduct mark/recapture experiments. Prolect and restore spawning habitats and their durabitity. Monitor flows and geomorphic and channel characteristics pre and post project. Survey spawning activity, pre and post project.	Negotialing a change of scope for review by CALFED.

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97-M09	Tuckumne River setback levees and channel restoration	Habitat Restoration	Turlock Irrigation District	Tuolumne River	\$2,801,000	so	\$0	\$3,382,000	\$50,000		Increase survival of outmigrating smolts. Monitor temperature and water quality, pre and post project. Conduct mark/recapture, experiments. Protect and restore spawning habitats and their durability. Monitor flows and geomorphic and channed characteristics pre and post project. Survey spawning activity, pre and post project.	Negotiating a change of scope for review by CALFED.
				Total: \$	\$27,958,105		\$14,084,744	\$20,698,833	\$23,225,622			
			 	43 Contracts	ļ	77% Obligated	50% Expended				 <u>-</u> -	77%
		٠	1	Contracts		Obligated		Agency: U.S. Bureat	of Reclamation (F	ederal fun	ds)	Executed
97-B01	Watershed	Watershed	USFS	Deer, Mill,	\$371,000	\$371,000	\$121,360	\$0	\$69,000		Existing long-term condition monitoring program in-place	Contract executed 3/16/98.
	improvements/sediment stabilization (Deer, Mill, Antelope Creeks)	Management		Antelope Creeks								
97-B02	Sedimentation movement and availability and monitoring in the Delta	River Channel Changes	USGS	Della	\$1,046,200	\$1,046,200	\$242,800	\$0	\$0		Describe the movement and availability of sediment in the Delta, as needed for habital restoration. Monitor sediment transport (suspended load and bedtoad) at several locations.	Contract executed 3/16/98 for \$587,000. Contract executed 5/21/98 for \$460,000.
97-B03	Liberty Island acquisition	River Channel Changes	USFWS	Delta	\$8,577,000	\$8,577,000	\$240,000	\$25,000	\$0	4,7601	Protect and restore tidally influenced wellands, riparian corridors, and upland habitats. Measure distribution of habitats and species populations.	Contract executed 3/11/98. NEPA documentation underway. Acquisition expected by 10/31/99.
	Refuge lands (SJR NWR)	Habitat Restoration		San Joaquin Mainstem	\$10,647,000	\$10,647,000	\$1,717,274	\$0	\$9,353,000		Protect and restore lands, riparian corridors, and other wetland habitats. Measure distribution of habitats and species populations.	Contract executed 3/11/98. One parcel acquired, appraisals underway on other parcels. Closure expected in Sept.
97-805	Bear Creek floodplain restoration demonstration	Habitat Restoration	USFWS	San Joaquin River	\$334,000	\$334,000	\$331,408	- \$0	. \$80,000	1326 ²	Protect and enhance riparian, floodplain and wetland habitats. Measure distribution of habitats and species populations.	Contract executed 3/14/98.
97-B06		Water Quality and Temperature	usgs	Landscape	\$1,440,649	\$1,550,649	\$413,842 -	. \$0	\$0			Contract executed 3/16/98 for \$517,000. Contract executed 7/22/98 for \$833,000.
	Richter Brothers screen	Fish Screen	Richter Brothers	Mainstem	\$49,000	\$49,000	\$0	\$0	\$0		Reduce entrainment of outmigrating fish. Measure screen approach, sweep, and bypass flow velocities.	
98-B02	Boeger Family Farm screen - Feasibility Study	Fish Screen	Boeger Family Farms	Sacramento Mainstem	\$15,000	\$15,000	\$13,811	\$0	\$0		Reduce entrainment of outmigrating fish. Measure screen approach, sweep, and bypass flow velocities.	Executed 8/18/98.
98-B03	ACID fish passage	Fish Passage	Anderson- Cotlonwood Irrigation District	Sacramento Mainstem	\$325,000	\$325,000	\$325,000	\$0	\$50,000		Reduce entrainment of outmigrating fish. Measure screen approach, sweep, and bypass flow velocities.	Executed 6/5/98.
	Sand and Salt Creek watershed project	Water Quality and Temperature	Colusa County Resource Conservation District	Colusa Basin	\$598,633	\$598,633	\$39,744	\$0	\$1,508,000	-	Evaluate different application practices and vegetation conditions on impact to level of surface runoff of OP pesticides and sediments. Water quality and flow measurements in runoff adjacent to sites. Evaluate if stable grade conditions will reduce erosion. Site erosion monitoring pre	Executed 6/24/98.
98-B07	Evaluation of selenium sources, levels, and consequences in the Delta	Water Quality and Temperature	USGS	Delta	\$1,588,709	\$1,588,709	\$268,168	\$0	\$1,190,655		Evaluate sources of selenium at various times and locations. Collect and analyze water column samples. Evaluate impact of selenium or critical preylindcator species at various times and locations, and relate to impacts on species of concern. Collect and analyze selected preylindicator species. Measure levels and kinetics in species of concern under controlled uptake conditions.	interagency contract executed 8/12/98.
98-B08	Cache Slough habitat enhancement	Habitat Restoration	RD No. 2060	Delta	\$85,000	\$85,000	\$0	\$0	\$0	92	Restoration of levee using environmentally friendly approaches. Sediment deposition/accretion and topographic surveys, pre and post project. Survey of vegetation survivorship, diversity and growth at various increments of time.	Executed 6/2/98.
	IPM Partnership to Improve Water Quality in Suisun Bay and Local Creeks	Water Quality and Temperature	Central Contra Costa Sanitary District	Delta	\$266,000	\$266,000	\$16,007	so	\$191,000		Increase awareness of users to detrimental impacts and miligations approaches. User survey on participation, value, and product sates pre and post implementation. Reduce the runoff levels as a result of implementation. Concentration of OP pesticides in influent of waste water, and may have urban creek water quality measurements, and compare pre and post project.	Executed 8/20/98.
98-B10	Inventory of forest road systems, Cat Creek Watershed	Watershed Management	USFS	Cosumnes River	\$38,000	\$38,000	\$0	\$0	\$0		Develop watershed restoration plan to reduce erosion. Monitor aquatic habitat and channel characteristics, water chemistry and species population/use.	Executed 8/6/98.
98-B11	Woodbridge fish screen and passage (Fish Screen	Woodbridge Irrigation District	Mokelumne River	\$1,575,000	\$1,575,000	\$124,581	\$0	\$0		Increase upstream passage of returning adults. Reduce entrainment of outmigrating fish. Measure screen approach, sweep, and bypass flow velocities.	Executed 6/30/98.
98-B13	Napa River Wellands acquisition	Habitat Restoration	Napa County Land Trust	Northbay	\$1,000,000	\$1,000,000	\$910,000	. \$0	\$0	956	Protect and restore native marsh welland habitat. Monitor vegetation, fish and wildlife populations.	Executed 9/24/98.
98-B14	Bacterial treatment of Selenium in the Panoche Drainage	Water Quality and Temperature	UC Berkeley	San Joaquin Mainstem	\$1,148,326	\$1,148,326	\$165,293	\$0	\$0		Demonstrate the effectiveness of microalgae as a substrate for narate and selenium reduction in agricultural discharge water. Treatment effectiveness and operational issues. Costs of process, to estimate costs for full scale operation.	Executed 9/9/98.
98-B15	Evaluation of tagging data	Fish Management and Hatchery Operations	Northwest Marine Technology Inc	Landscape	\$625,000	\$625,000	\$35,084 -	\$0	\$0		Evaluate feasibility and benefits for mass marking techniques. Data review on tagging and recovery.	Executed 7/1/98.

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98-B16	Balllo Creek screens and fish passage (A194)	Fish Passage	USBR	Battle Creek	\$395,000	\$395,000	\$10,688	\$0	\$0		Increase upstream passage of returning adults over barriers to make habitat available for spawning and rearing. Video observation and radiotag tracking at the CNFH fish ladder. Monitor and estimate populations via snorkel, carcass counts, redd and aerial surveys. Measure relative abundance, distribution and emigration timing of juveniles via screwtrap. Measure and evaluate fish injury with CNFH passage using organosomatic index. Measurement of flow and velocity at various stage heights to determine performance and reliability to design standards. Preclude passage of hatchery fish during their return to the hatchery. Dreat observations at were and upstream; tracking of radio tagged fish. Increase riverine habitat quality and quantity (flow). Reduce entrailment of outmigrating fish. Measure screen approach, sweep, and bypass flow velocities.	Executed 9/10/98.
98-B17	Cosumnes floodplain	Habitat Restoration	The Nature	Cosumnes	\$3,500,000	\$3,500,000	\$3,500,000	\$0	\$0	2,256 ¹	Restore and improve floodplain functions. Restore riparian and	Executed 7/8/98,
98-B21	acquisition and restoration Anadromous Fish Passage at	Fish Passage	Conservancy DWR	River Mill Creek	\$1,280,000	\$1,280,000	\$0	\$0	\$0		wetland vegetation. Monitor vegetation, fish and wildlife populations. Reduce entrainment of outmigrating fish. Measure screen approach,	Agreement being prepared,
98-B22	Clough Dam on Mill Creek Fish Passage Improvement Project at the Red Bluff	Fish Passage	Tehama-Colusa Canal Authority	Sacramento Mainstem	\$340,600	\$340,600	\$0	\$0	\$0		sweep, and bypass flow velocities. Similar to 98B16	Executed 3/8/99.
98-B23	Diversion Dam (B1004) Steelhead and Chinook Salmon Fish Passage Barrier Remediation on the Guadulupe	Fish Passage	Natural Heritage Institute et. al:	Landscape	\$178,200	\$0	\$0	\$0	\$0		Increase upstream passage of returning adults. Measure physical configuration and velocities. Observation of upstream migration.	Agreement sent 3/16/99,
98-B24	ACID Fish Passage and Fish Screen Improvement Project, Phase II, Final Design (B1007)	Fish Passage	Anderson- Coltonwood Irrigation District	Sacramento Mainstern	\$860,000	\$860,000	\$117,833	\$0	\$0		Protect and restore tidally influenced wetlands, riparian corridors, and upland habitats	Agreement sent 3/11/99.
98-B25	Cosumnes River Salmoid Barrier Program Fishery(B1009)	Fish Passage	Foundation of California	Cosumnes River	\$188,255	\$188,255 -	\$0	So	\$188,255	-	Increase upstream passage of returning adults. Pre and Post project monitoring of spatial and temporal spawning distribution and spawning habitat.	
98-B26	Boeger Family Farm Fish screen Phase II: Construction	Fish Passage	Boeger Family Farms	Sacramento Mainstem	\$139,500	\$0	\$0	\$0	\$139,500		Reduce entrainment of outmigrating fish. Measure screen approach, sweep, and bypass flow velocities.	Agreement being prepared.
98-B27	Hastings Tract Fish Screen Phase II: Construction (B1015)	Fish Passage	Hastings Island Land Company	Delta	. \$271,250	- \$0	\$0	\$0	\$271,750		Reduce entrainment of outmigrating fish. Measure screen approach, sweep, and bypass flow velocities.	Agreement being prepared.
98-B28	City of Sacramento Fish Screen Replacement Project Phase 2 - Design (B1016)	Fish Passage	City of Sacramento	Sacramento River	\$654,500	\$0	\$0	\$0	\$745,000		Reduce entrainment of outmigrating fish. Measure screen approach, sweep, and bypass flow velocities.	Agreement being prepared.
98-B29	American Basin Fish Screen and Habitat Improvement Project (B1017)	Fish Passage	Natomas Mutual Water Company		\$200,000	\$0	\$0	\$200,000	\$0		Reduce entrainment of outmigrating fish. Measure screen approach, sweep, and bypass flow velocities.	Agreement being prepared.
	San Joaquin Valley 'Salmonids in the Classroom Program Enhancement (H1001)	Education	DFG	San Joaquin River	\$3,000	\$0	\$0	\$0	\$0		Increase student awareness of issues and needs of aquatic and terrestrial natural resources.	Executed.
98-B31	Traveling Film Festival/Heron Booth/Video Archive (H1002)	Education	Independent Documentary Group	Landscape	\$54,000	\$54,000	\$43,902	\$0	\$0		Increase public awareness of issues and needs of functional river system.	Executed 2/23/99.
	Environmental Agriculture Conferences and Field Tours (H1005)	Education	Committee for Sustainable Agriculture	Landscape	\$28,000	\$28,000	\$14,000	\$0			Increase farmer awareness of issues and needs of functional river system.	Executed 2/25/99,
98-B33	Sacramento River, Headwaters to the Ocean, Public Information and Education (H1006)	Education	Sacramento River Discovery Center	Sacramento River	\$49,640	\$49,640	\$21,907	\$410,000	\$1,082,500		Increase public awareness of issues and needs of functional river system.	Executed 2/25/99.
98-834	Discover the Flyway (H1008)	Education	Yolo Basin Foundation	Delta	\$49,000	\$49,000	\$0	\$0	\$0		Increase student awareness of wetlands and wildlife issues in the Yolo Basin.	Executed 3/22/99.
98-B35	The Bulte Creek Watershed Educational Workshops and Field Tours Series (H1010)	Education	CSU, Chico	Butle Creek	\$33,000	\$33,000	. \$0	\$0	\$0		Increase public awareness of issues and needs of aquatic and terrestrial natural resources.	Executed 3/15/99.
98-B36	Bay-Delta Environmental Restoration Education Program (H1015)	Education	Water Education Foundation	Landscape	\$40,000	\$40,000	\$0	\$0	\$0		Increase public awareness of environmental issues in the Bay-Delta.	Executed 3/8/99,
98-B37	The Virtual Science Center and Hands-on Learning Programs (H1016)	Education	The Delta Science Center at Big Break	Della	. \$42,000	\$0	\$9,598	\$0	\$0		Increase public awareness of environmental issues in the Bay-Delta.	Project cancelled.
98-B38	Water Hyacinth Education Program (H1017)	Education	Sacramento Regional County Sanitation District	Delta t	\$9,600	\$0	\$0	\$0	\$0		Increase public awareness of issues related to release of hyacinth.	Executed.
98-B39	Waler Challenge 2010 (H1018)	Education	San Francisco Bay Model Visitor Center, USACE	Landscape	\$64,500	\$64,500	\$0	\$0	\$15,000		Increase public awareness of environmental and water management issues in the Bay-Delta.	Executed 3/5/99,
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99-822	99-B21	99-820	99-819	99-818	99-817	99-B16	99-B15	99-B14	99-B13	99-812	99-B11	99-810	99-B09	99-B08	99-807	99-806	99-B05	99-B04	99-B03	99-B02	89-B01	98-B40	CALFED No
Water Challenge 2010 Exhib¥	Estuary Action Challenge Environmental Education Project	егу	Health Monitoring of Hatchery & Natural Fall-run Chinook in SJ River		Dissolved Organic Carbon Release from Delta Wetlands, Part 1	Determination of the Causes of Dissolved Oxygen Depletion in the SJ River	Douglas/Long Canyon Paired - Walershed Project	Biological Ag Systems in Cotton BASIC-Reducing Synthetic Pesticides & Fertilizers in the N. SJ Viy	Understanding Tidal Marsh Restoration Processes & Patterns	Riparian Corridor Acquisition & Restoration Assessment	South Napa River Tidal Stough & Floodplain Restoration Project	Species & Community Profiles of the SF Bay Area Wetlands Ecosystem Goals Project		Improve Upstream Ladder & Barrier Weir @Coleman Nat! Fish Hatchery at Battle Creek	Fish Passage Improvement Project at the Red Bluff Diversion Dam	Assessment of Ecological and Human Health Impacts of Mercury in the Bay-Delta	Merced River Salmon Habital Enhancement; Ratzlaff Reach (DA6)	Merced River Salmon Habitat Enhancement; Lower Stone (DA5)	ACID Fish Passage and Fish Screen Improvement Project, Phase III (DA3)	Lower Butte Creek Project Phase II (DA2)	Battle Creek Salmon and Steelhead Restoration Project (DA1)	Tuolumne River Natural Resources Program (H1019)	Project Description
ng, Permit Ition & Decial	Monitoring, Permit Coordination & Other Special Support	Monitoring, Permit Coordination & Other Special Support	Improved Fish Management & Hatchery Operations	Ē		Water Quality and Temperature Improvements	Watershed Management	Watershed Management	Habitat Restoration in Floodpiains & Marshes	Habitat Restoration in Floodplains & Marshes	Habitat Restoration In Floodplains & Marshes	Habitat Restoration in Floodplains & Marshes	Habitat Restoration in Floodplains & Marshes	Fish Passage Improvements	Fish Passage Improvements	Water Quality and Temperature	River Channel Changes	River Channel Changes	Fish Passage	Fish Passage	Fish Passage	Education	Project Category
USCOE	Earth Island Institute	Sacramento River Discovery Center	uswFs		nses		Placer Co Water Agency	Sustainable Colton Project	Univ. of Washington	USBLM	City of American Canyon	Friends of S.F. Estuary			Colusa	CSU, San Jose		DWR	Anderson- Cottonwood Irrigation District	Ducks Unlimited, Inc.	PG&E	City of Modesto	Applicant
Landscape	Landscape	Sacramento Mainstern	San Joaquin Mainstern	Landscape	Landscape	San Joaquin Mainstern	American River	San Joaquin Mainstem	SF Bay Area	Sacramento Mainstem	Napa	Bay Area	Yuba River	Battle Creek	Sacramento Mainstem	Landscape	Merced River	Merced River	Sacramento Mainstern	Butte Creek	Battle Creek	Tuolumne River	Geo Area
\$52,015	\$515,000	\$39,552	\$38,996	\$152,233	\$1,434,449	\$892,400	\$86,108	\$473,800	\$1,073,513	\$2,240,250	\$1,565,500	\$45,320	\$176,130	\$1,713,302	\$1,030,000	\$3,800,000	\$1,633,000	\$130,000	\$5,253,000	\$775,000	\$28,000,000	\$55,255	CALFED Approved Funding
Şo	\$0	Şo	Şo	s	8	\$0	\$0	\$0	\$6	\$0	\$6	\$	\$	8	\$0	. \$6	\$0	. \$0	\$ 0	\$8	\$196,30	\$55,25	CALFED Funds Obligated
\$0		\$c	\$0		\$		\$0	\$0	\$0 \$0	S	\$	 9	8			\$0	\$0	\$0			\$196,304	\$0	CALFED Funds Expended
\$0	\$0	\$0	50		şo		Şo	şo	\$0	\$0	\$0	\$	so so	,		\$0	\$0	\$0		\$0	\$0	\$0	CVPIA Funding
									,							\$710,000	\$6	\$6	8	so	\$6	×	Other Funding
		, ,																					Acres
							-									Determine bioavailable sources of mercury in the Bay-Delta Watershed. Obtain data on mercury levels in fish and complete pilot mine remediation feasibility studies.	Same as 99-B04	Reduce entrainment of outmigrating fish. Measure temperature and fish distribution and abundance.	Increase upstream passage of reluming adults. Reduce entrainment of ourlinigrating fish, Measure screen approach, sweep, and bypass flow velocities. Evaluate the Impact of shallow water restoration actions on water quality. Collect and conduct physical/rhemical analysis of water and so'd samples.			Increase public awareness of issues and needs of river system environment.	Monitoring
								•				. "" "			and the second s	Confrad being prepared.	Confract being prepared.	Confrad being prepared.	Contract being prepared.	Contract being prepared.	Confract being prepared.	Executed.	Status

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CALFED No.	Project Description	Project Category	Applicant	Geo Area	CALFED Approved Funding	CALFED Funds Obligated	CALFED Funds Expended	CVPIA Funding	Other Funding	Acres	Monitoring	Status .
99-B23	The Learning Watershed Project	Monitoring, Pennit Coordination & Other Special Support	American River Watershed Institute	American Rive	\$56,907	\$0	\$0	\$6				
99-B24	Traveling Film Festival Exhibit	Monitoring, Permit Coordination & Other Special Support	Independent Documentary Group	Landscape	\$51,500	\$0	\$0	\$6				
99-B25	River Studies Center Exhibits & Programs		SJ River Parkway & Conservation Trust	San Joaquín Mainstem	\$70,467	\$0	\$c	\$0				
99-B26	1999/2000 Bay-Delta Education Program		Water Education Foundation	Landscape	\$33,269	\$0	\$0	şo				
99-B27	Watershed Educational Training	Monitoring, Permit Coordination & Other Special Support	Colusa County Resource Conservation District	Sacramento Tributaries	\$13,390	\$0	\$0	\$0				
				Total: \$	\$89,509,918	\$36,973,071	\$8,878,604		\$15,593,660			
				46		41%	10%					67%
	L		L	Contracts	<u> </u>	Obligated	Expended		l Destario	<u> </u>		Executed
97-E01	Watershed Plan (Big Chico	Watershed	Big Chico Creek	Bia Chica	\$295,313	\$295,313	Contract Agen \$118,125	cy: US Environmen	tal Protection Agen	cy (Federal		DOOT FAT WILL ALBERT AND PRACTICAL AND PRACT
97-201	Creek) (F219)	Management	Watershed Alliance	Creek	\$285,313	\$290,313	\$118,125				Reduce impacts of past and ongoing land use practices to enhance aquatic habitats. Conduct riparian and geomorphic surveys, pre and post project.	\$127,517 will be obligated in April. EPA watershed funds.
97-E02	Watershed Planning (Deer Creek) (F237)	Watershed Management	Deer Creek Watershed Conservancy, CSU Chico	Deer Creek	\$196,554	\$196,554	\$78,622		\$231,000		Reduce land use practices detrimental to aquatic environments. Monitor water quality.	Executed.
98-E01	Napa River Watershed (M92)	Watershed Management	Napa County Resource Conservation District	Northbay	\$252,000	\$252,000	\$213,317	\$(\$0		Protect and enhance the riparian and riverine habitats. Monitor habitat characteristics, geomorphology and bank stability, flow/runoff, species assessments, and water quality. Fealitate broadbased local stakeholder group in development of watershed plan. Develop river model to assess alternative scenarios. Collect flow and channel/geomorphology data.	Executed 5/29/98.
98-E02	Sonoma Creek Walershed (M113)	Watershed Management	Southern Sonoma County Resource Conservation District	Northbay	\$302,000	\$302,000	.\$115,828	\$0	\$0		Protect and enhance the riparian and riverine habitats. Monitor riverine conditions: gravel, temperature. Riparian monitoring and non native control. Implement environmentally-responsible vineyard management practices. Monitor water quality and habitat characteristics. Increase public awareness of issues and needs of aquatic and terrestrial natural resources. Increase upstream passage	Executed 5/29/98,
98-E03	Regional Wetlands Goals Project (M130)	Habilal Restoration	San Francisco Estuary Institute	Northbay	\$76,000	\$76,000	\$0	\$0	\$200,000		Evaluate restoration and rehabilitation needs of region.	Completed.
98-E04	Petaluma River Watershed Restoration Program (G1014)	Watershed Management	Southern Sonoma County Resource Conservation District	Northbay	\$220,000	\$220,000	\$0	50	\$0		Evaluate and implement restoration and rehabilitation needs of the region.	Executed 5/13/99
					<u> </u>					<u> </u>	<u> </u>	<u></u>
98-E05	Cottonwood Creek Watershed Group Formation (G1015)	Watershed Management	Cottonwood Creek Watershed Group	Cottonwood d Creek	\$161,000	\$161,000	\$0	. \$0	\$0		Facilitate broadbased local stakeholder group in development of watershed plan. Evaluate restoration needs of region.	Executed on \$/11/99
98-E06	Battle Creek Watershed Stewardship (G1018)	Watershed Management	Battle Creek Watershed Conservancy	Baltle Creek	\$145,000		\$0	\$0	\$0		Facilitate broadbased local stakeholder group in development of watershed plan. Improve watershed practices to reduce detrimental impacts on aquatic habitats.	EPA executed a cooperative agreement with NFWF in February to manage these 14 watershed projects. A NFWF sub-agreement is expected,
98-E07	Local Watershed Stewardship: Steelhead Trout Plan (G1022)		Friends of Corte Madera Creek Watershed	Northbay	\$47,500	\$47,500	\$0	\$0	\$0		Develop steelhead restoration plan. Collect fish habitat and population information and thermograph data.	Executed on 4/2/99.
98-E08	Cold Water Fisheries and Water Quality Element (G1023)	Watershed Management	City of San Jose- Environmental Services Department	Other	\$200,000	\$200,000	\$0	\$0	\$0	16	Evaluate restoration needs of region.	EPA executed a cooperative agreement with NFWF in February to manage these 14 watershed projects. A NFWF subagreement is expected.
98-E09	Merced River Corridor Restoration Plan (G1026)	Walershed Management	Stittwater Sciences & Merced Co. Planning & Comm. Develop. Dept.	Merced River	\$300,000	\$300,000	\$0	\$0	\$0		Facilitate broadbased local stakeholder group in development of watershed plan. Evaluate restoration needs of region.	Executed 5/25/99
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Acquisition of existing habitat, or restoration of public lands or existing degraded habitat - No land use change.</sup>

CALFED No.	Project Description	Project Category	Applicant	Geo Area	CALFED Approved Funding	CALFED Funds Obligated	CALFED Funds Expended	CVPIA Funding	Other Funding	Acres	Monitoring	Status
98-E10	South Yuba River Coordinated Watershed Management Plan (G1029)	Watershed Management	DPR	Yuba River	\$264,000	\$264,000	\$0	\$0	\$0		Facilitate broadbased local stakeholder group in development of watershed plan. Evaluate restoration needs of region.	Executed 5/13/99
98-E11	Watershed Restoration Strategy for the Yolo Bypass (G1033)	Watershed Management	Yolo Basin Foundation, Inc.	Delta	\$244,188	\$244,188	\$0	\$0	\$0		Facilitate broadbased local stakeholder group in development of watershed plan. Evaluate restoration needs of region.	Executed.
98-E12	Proposal to Develop Local Watershed Stewardship Plan for the Lower Mokelumne River (G1038)		San Joaquin County Resource Conservation District	Mokelumne River	\$159,000	\$159,000	\$0	so	\$0		Facilitate broadbased local stakeholder group in development of watershed plan. Evaluate restoration needs of region.	Executed 4/9/99
98-E13	Union School Slough Watershed Improvement Program (G1040)		National Audubon Society - California	Yolo Basin	\$636,000	\$636,000	\$0	\$0	\$0		Develop and implement riparian restoration project on farms. Water quality and habitat surveys	Executed 5/25/99
98-E14	American River Integrated Watershed Stewardship Strategy (G1047)		Placer County Resource Conservation District	American River	\$220,750	\$220,750	\$0	\$0			Evaluate restoration needs of region.	Executed
98-E15	Sulphur Creek Coordinated Resource Management Planning Group (G1049)	Watershed Management	Sacramento Watersheds Action Group	Clear Creek	\$23,828	\$23,828	\$0	\$0	\$0		Facilitate broadbased local stakeholder group in implementation of restoration activities.	Executed 5/13/99
98-E16	Lower Putah Creek Watershed Stewardship Program (G1052)	Management	Solano County, Department of Environmental Management	Putah Creek	\$100,500	\$100,500	\$0	\$0	\$0		Facilitate broadbased local stakeholder group in development of watershed plan. Evaluate restoration and rehabilitation needs of region.	EPA executed a cooperative agreement with NFWF in February to manage these 14 watershed projects. A NFWF sub-agreement is expected.
98-E17	Alhambra Creek Walershed CRMP Program (G1053)	Watershed Management	Contra Costa Resource Conservation District	Suisun Marsh	\$138,500	\$138,500	\$0	\$0	\$0		Facilitate broadbased local stakeholder group in development of watershed plan. Evaluate and implement restoration and rehabilitation needs of region.	Executed 4/8/99
				Total: \$	\$3,982,133	\$3,982,133	\$525,892	\$0	\$431,000			
		1		Contracts	'	100% Obligated	13% Expended	· · · · · ·				100% Executed
		·		-	· l				Wildlife Service (F	deral fund	is) .	I Executed
98-F01	Butte Creek Watershed (F222,224,225)	Watershed Management	CSU, Chico	Butte Creek	\$261,300	\$261,300	\$19,223 -	\$0	\$0		Evaluate erosion sediment sources and implement corrective actions. Inventory road infrastructure and erosion features and changes over time. Protection and enhancement of riparian corridors and floodplain habitats and processes. Collect geomorphic data (channel incisions, gravel deposits, terraces, etc.) in channel and riparian characterization via surveys. Increase awareness of issues and needs of watershed health.	Executed.
98-F02	Butte Creek Watershed Coordinator Assistant (F221)	Watershed Management	Butte Creek Watershed Conservancy	Butte Creek	\$32,700	\$32,700	\$0	\$0	\$0		Improve coordination of watershed groups and restoration activities.	Contract under preparation.
98-F03	Buttle Creek acquisition and riparian restoration (G218)	-	CSU, Chico	Butte Creek	\$125,000	\$125,000	\$125,000	\$0	\$0	80	Restore and improve floodplain functions. Restore riparian and wetland vegetation. Monitor vegetation, fish and wildlife populations.	Executed.
98-F04	Lower Mill Creek riparian restoration (G292)		Mill Creek Conservancy, The Nature Conservancy	Mill Creek	\$29,730	\$29,730	\$0	\$0	\$0	74 ²	Restore and improve floodplain functions. Restore riparian and wettand vegetation. Monitor vegetation, fish and wildlife populations.	Executed.
98-F06	Tuolumne River setback levees and channel restoration (H136)	Fish Passage	Turlock Irrigation District	Tuolumne Ríver 	\$655,700	\$655,700	\$0	\$0	\$0		Improve and restore spawning habitat and durability. Monitor geomorphology (pebble counts, tracer rocks, stabilization)and channe characteristics, pre and post project and after flow events. Conduct redd counts and other use surveys. Conduct tracer rock evaluations. Improve survival of outmigrating smolts due to predation. Measure conversion of predator habitat (temperature, flow, transit, channel cross section). Survey predator population density. Conduct mark-recapture of smolts. Improve and restore inparian communities Monitor composition, distribution, and survival of plantings, pre and post project.	Executed 9/3/98.
98-F07	Grayson River Ranch Perpetual Easement and Restoration (C1003)	ĺ	East Stanislaus RCD and Friends of the Tuolumne		\$732,000	\$732,000	SO	\$0	\$311,000	1401	Protect and enhance riparian and floodplain habitats. Measure species diversity and populations compared with desired conditions.	Executed. Nearing completion of Perpetual Easement acquisition.
98-F08	Hill Slough West Habitat Demonstration Project (C1004)	Habitat Restoration	DFG	Suisun Marsh	\$200,000	\$200,000	\$0	\$0	\$0		Restore tidal action of seasonal and permanent wetlands. Survey fishery and wildlife use and habitats. Survey vegetation composition, growth, trends and recruitment.	Executed. CDFG writing RFP to hire consultant to do topographic surveys & address hydrologic issues.
98-F09	Management and Habitat Restoration (C1006)	Habitat Restoration		Della	\$25,000	\$25,000	\$0	\$0	\$0	67 ²	Restore and improve floodplain functions and shallow water and riparian habitat. Survey of fish and avian use. Survey of habitat conditions.	Cooperative Agreement sent to Applicant for signature 1/13/99, 30-day notice sent.
98-F10	Nelson Stough Wildlife Area Restoration Demonstration Project (C1008)	Habitat Restoration	DFG	Feather River	\$258,476	\$0	\$0	\$0	\$10,000	85²	Evaluate effectiveness of passive floodplain functioning to restore riparian and wetland vegetation. Monitor natural colonization of vegetation; fish use of floodplain; and fish stranding.	CDFG withdrew proposal (per Ron Remple), 6/29/99.

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 Acquisition of existing habitat, or restoration of public lands or existing degraded habitat - No land use change.

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CALFED No.	Project Description	Project Category	Applicant	Geo Area	CALFED Approved Funding	CALFED Funds Obligated	CALFED Funds Expended	CVPIA Funding	Other Funding	Acres	Monitoring	Status ·		
98-F11	Phase 3 - Merced River Salmon Habital Enhancement (C1009)	Habitat Restoration	DFG	Merced River	\$2,433,759	\$2,433,759	\$0	\$2,433,759	\$790,000		Monitor physical processes, abundance of fish, revegetation and predation. Topo surveys, fish sampling. Mark/recapture, photo survey, population census.	Executed		
98-F12	Stone Lakes NWR Land Acquisitions (C1010)	Habitat Restoration	USFWS	Delta	\$1,900,000	\$1,900,000	\$0	\$0	\$0	658 ¹	Protect and restore tidal and seasonal wetlands, riparian corridors and upland habitats. Survey for fish and wildlife use.	Funds transferred to USFWS, Sacramento Realty Office. Implementation begun. Offer made on one property 3/3/99.		
98-F13	Petaluma Marsh Expansion Project - Marin County (C1016)	Habital Restoration	Marin Audubon Society	Northbay	\$352,135	\$352,135	\$0		\$525,885	181	Protect and restore tidal marsh. Evaluate fish and avian use, sedimentation and other channel/geomorphic processes, vegetation and habitat characterization	Executed. Updated appraisal report shows property value of \$544,400. Finalizing restoration design.		
98-F14	South Napa River Wellands Acquisition and Restoration Program (C1017)	Habitat Restoration	Napa County Land Trust	Northbay	\$431,000	\$431,000	\$0	\$0	\$65,000	600	Recolonization of native plants, plant surveys and survival rates. Monitor tidal and over bank flows and sedimentation.	Executed. Coordinating with Flood Control District regarding EIR for acquisition. Met with locals and attended public hearing regarding acquisitions.		
98-F15	Lower Clear Creek Floodway Restoration Project (C024)	Habitat Restoration	Western Shasta Resource Conservation District	Clear Creek	\$3,559,596	\$3,559,596	\$2,954	\$500,000	\$0	70	Improve spawning and rearing habitat and its durability. Survey spawning habitats and spawning/rearing use. Conduct tracer rock evaluations across different locations. Monitor flows and geomorphic and channel characteristics over time. Reduce stranding of outmigrating/rearing fish. Visual, seining and electrofishing survey following flood events. Restore natural functioning riparian communities. Map and characterize the composition of vegetation communities and natural recruitment.	Executed.		
98-F16	Fern-Headreach Tidal Perennial Aquatic and Shaded River Aquatic Conservation Project (C1025)	Habitat Restoration	Thomas Luckey (L & L Farms, LLC)	Delta	\$425,000	\$425,000	\$0	\$0	\$0	168 ²	Project will protect riparian and tidal shallow water habitat. Survey for fish and wildlife use.	Executed. Property Approval, acquisition and Contaminant surveys being completed.		
98-F17	Benicia Waterfront Marsh Restoration (C1026)	Habilal Restoration	City of Benicia	Suisun Marsh	\$59,000	\$59,000	\$0	\$0	\$0	8 ²	Restore tidal action to salt marsh habitat to provide tidal saline emergent wellands. Survey target wettand vegetation and removal of exotic plants. Survey for fish and wildlife use.	Executed, Contracts being executed with consultants.		
98-F18	Floodplain Acquisition, Management, and Monitoring on the Sacramento River (C1028)	Habitat Restoration	The Nature Conservancy, Wildlife Conservation Board, and others.	Sacramento Mainstem	\$1,000,000	\$1,000,000	\$0	\$0	\$0	500	Develop projectwide monitoring to assess channel meander and habital restoration. Survey geomorphologic processes and floodplain habital response.	Executed.		
98-F19	Cosumnes River Acquisition, Restoration Planning and Demonstration (C1032)	Habitat Restoration	The Nature Conservancy	Cosumnes River	\$750,000	\$750,000	\$0	\$0	\$0	800 ²	Acquire and restore floodplain and wetland habitat and functions. Monitor habitat characteristics and species use.	Executed.		
98-F20	Deer and Mill Creeks Acquisition and Enhancement	Habitat Restoration	The Nature Conservancy	Deer, Mill Creeks	\$1,000,000	\$1,000,000	\$0	\$0	\$0	. 2,500¹	Increase native riparian growth adjacent to the river. Measure tree density and species composition and height, pre and post project,	Executed. Acquisition negotiations initiated.		
98-F21	Lower San Joaquín River Floodplain Protection and Restoration Project (C1038)	Habitat Restoration		San Joaquin River	\$1,100,000	\$1,100,000	\$0	. \$c	\$4,799,000	303		Funds transferred to USFWS, San Luis NWR Complex, Implementation begun. Appraisals made and negotiations underway to acquire		
98-F22	Biological Restoration and Monitoring in the Suisun Marsh/North San Francisco Bay Ecological Zone (C1042)	Habitat Restoration	CSU, Hayward	Suisun Marsh	\$772,667	\$772,667	\$55,374	\$0	\$243,812	2722	Restore emergent and immersed marshland. Monthly monitoring for sedimentation, water quality, vegetation, fish and avian use and populations, and planktonic toods.	Agreement signed by Cooperator 1/4/99. Implementation begun.		
98-F23	South Napa River Tidal Stough and Floodplain Restoration Project (C1044)	Habitat Restoration	City of American Canyon	Northbay	\$1,455,000	\$1,455,000	\$12,691	\$0	\$718,000	519 ²	Monitor return of tidal flows, recolonization of native plants, survival of riparian vegetation and fish utilization.	Executed. Acquisition Appraisal Report sent to Realty for review on 6/22/99. Weltands delineation completed,		
98-F24	Butte Creek Riparian Restoration Demonstration	Habitat Restoration	CSU, Chico	Butte Creek	\$76,348	\$76,348	\$693	\$0	\$0		Monitor revegetation success. Bioassessment of benthic invertebrates. Water quality monitoring. Wildlife inventories.	Executed. Planning and designing for restoration, trails and signing underway using Research Foundation employees,		
98-F25	Exotic Species Control Program	Introduced and Undesirable	USFWS	Landscape	\$1,250,000	\$1,250,000	\$33,836	\$0	\$0		CALFED has developed this program to identify and implement projects addressing exotic species control.	Projects under this program will be selected through the current PSP.		
99-F01	Restore Special Run Pool 10 Reach (DA7)	River Channel Changes	Turlock Irrigation District	Tuolumne River	\$165,000	\$0	\$0	\$356,000	\$0		Monitor physical habitat changes, survival of riparian vegetation and fish population changes, post restoration.	Contract being prepared.		
99-F02	Restore MJ Ruddy Reach (DA8)	River Channel Changes	Turlock Irrigation District	Tuolumne River	\$3,332,000	\$0	\$0	\$3,079,000	\$0		Monitor physical habitat changes, survival of riparian vegetation and fish population changes, post restoration.	Contract being prepared.		
99-F03	Restore habitat on McCormack- Williamson levees (DA12)	Habitat Restoration	The Nature Conservancy	Delta	\$860,000	\$0	. \$0	\$0	\$250,000		Monitor riparian vegetation, wildlife, avian and fish resources.	Proponent expects to sign option 4/99.		
99-F04	McCormack-Williamson Tract Acquisition (F1-307)	b17	The Nature Conservancy	Delta	\$5,250,000	\$0	\$0	\$0	\$0	1655 ¹	See 99-F03	Proponent expects to sign option 4/99.		
99-F05	Non-native Invasive Species Advisory Council	Introduced and Undesirable Species Control	USFWS	Landscape	\$50,000	\$0	\$0	\$0						
99-F06	Reducing Risk of Importation & Distribution on Non-native Invasive Species Through Outreach & Education	Introduced and Undesirable Species Control	UC Davis	Landscape	\$105,466	\$0	\$0	\$0						
99-F07	Zebra Mussel Detection & Outreach Project	Introduced and Undesirable Species Control	DWR	Landscape	\$100,000	\$0	\$0	- \$0						
99-F08	Purple Loostrife Prevention, Detection & Control in the Sac/SJ Delta & Associated Hydrologic Units	Introduced and Undesirable Species Control	DFA	Landscape	\$201,306	\$0	\$0	\$0						

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Acquisition of existing habitat, or restoration of public lands or existing degraded habitat - No land use change.</sup>

Status	Monitoring	saroA	Other Funding	CVPIA Funding	CALFED Funds	Obligated	CALFED Approved Funding \$250,000	Geo Area	California		Introduced Spartina Eradication	99-F09	
									Conservation	Undesirable Species Control	Project		
			1	os	os	os	094'94\$	гвидесерь	SFEI	Undesirable	Practical Guidebook to Prevent & Control for Non-native	99-F10	
										Species Control	Invasive Plants in Shallow Water Habitats of the Bay-Delta		
				o\$	os	os	064,001\$	Pandscape	SF State University		Effects of Introduced Clams on The Food Supply of Bay-Delta Fishes	11±-66	
			793,217,72	654'892'9\$	177,922\$	\$18'972'632	\$29,373,423	Total: \$					
%97			<u> </u>		%1	%		28				 	
Execuled	·		 		pepuedx∃	Obligated	 	Contracts				 	
··········	(sp	dera) fun	ell ersenight to equ	gency: US Army Co	A forting		· · · · · ·						
Project complete.	Repair levee breach and pump out island		os	os	240,688,1\$	\$2,000,000	000,000,5\$	Delta		Habitat Restoration	Prospect Island Habitat Protection Project		
Developing stralegy. Projects under this program will be selected through the	CALFED has Identified this program to fund Flood Control Bypass		os	os	969'01\$	\$1,200,000	\$1,200,000	Delta		Habitat Restoration	Flood Control Bypass Habitat	S0A-86	
current PSP.	habitat projects. They are now developing a strategy for		F	N3	<u> </u>	0\$	000,316\$	Delta	awn	Habitat Restoration	Prospect Island Monitoring		
соицяст рејий Бъеранед	Restore 1,300 acres of shallow water habital. Monitor fish, wildlife, water quality, vegetation, sediments, nutrients and benthic communities.		o\$	os	o\$	ne	000'016\$	בבעמ		LEDING WOOL	Project		
			os	os	0\$	os	678,0S8\$		Natural Heritage Institute		inundation of a Section of the Yolo Bypass to Restore Sacramento Spittail & Other		
			0\$	0\$	090'6+0'7\$	\$3,200,000	649'926'4\$	Total: \$					
%EE					%Z\$	%99		6				1	
Executed			 		pepuedx3	Opligated		Contracts				1	
Contract Agency: Mational Resources Conservation Service (Federal funds)													
Funds will be used to complete existing projects. New projects will be recruited	Reduce entrainment of outmigrating and resident fish. Measure		0\$	os	os	000'006\$	000'006\$	Delta	ивсе	Fish Screen	Gmall Diversion Fish Screen	1 1	
Ihrough NRCS process.	screen approach, sweep, and bypass flow velocities. Acquire and restore area prone to flood damage. Monitor vegetation	1,200	000,003,1\$	0	o\$	os	\$1,545,000	niupsot ns2	ивсе	Watershed	Prodplain Easements; Lower		
	snd wildlife populations.							River		Management	niupsot ns2 bns enmulouT		
			000'005'1\$	os	0\$		000'555'2\$	t :lstoT				 	
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